DRAFT STAFF WORKING PAPER
FOR DISCUSSION ONLY

Optimized Alternative 1

October 22, 1997

Conveyance Features

South Delta Improvements including:

- Screened Intake at Clifton Court Forebay (15,000 cfs with pump station)
- Old River channel enlargement
- Operable flow barriers or equivalent at head of Old River, Middle River, Grant Line Canal, and Old River.

CVP/SWP Improvements including:

- Screened intake on one bay at CVP
- Intertie between CCF and Tracy

Storage Features

North of Delta
Surface storage: 600,000 AF minimum (200,000 AF for Ecosystem, plus equivalent quantities for agricultural and municipal uses). Upper limit constrained by environmental and economic impacts.
Groundwater storage: 250,000 AF

In-Delta or Near-Delta - 300,000 AF surface storage (corresponds to about 30 day supply at 6,000 cfs export rate).

South of Delta
Surface storage: 0 AF minimum, maximum constrained by environmental and economic impacts.
Groundwater storage: 500,000 AF

Ecosystem Restoration, Water Quality, Levee rehabilitation, and Water Use Efficiency features not common to all alternatives

Ecosystem Restoration: No significant difference in level of implementation, but the effect of storage in this Optimized Alternative will reduce the need to purchase water through the transfer market.

Water Quality: Because, under this Optimized Alternative, discharges of organic carbon from Delta islands will continue to be a problem for drinking water supply, there will be increased emphasis on rerouting or otherwise controlling or removing organic carbon in island discharges.

Levee System Integrity: Under this Optimized Alternative, system integrity will continue to be very dependent on sound Delta levees. Accordingly, this alternative will emphasize seismic protection and general upgrading of the levee system.

Water Use Efficiency and Water Transfers: Water Use Efficiency measures will be implemented the same with this alternative as with the others. However, the effects of implementing this Optimized Alternative will be different. This alternative is likely to encourage improved water use efficiency and increased water recycling. The water transfer market is likely to increase, but the capability for implementing the transfers will be constrained by limited capacity to move water through the Delta.

1022IDT1